Fig. 1a

LD1-40-VH sequence

		9			18			27	666	C.T.C	36	CAC	ccm	45		TCC	
CAG	GTG	AAA	CTG	CTC	GAG	TCT	GGG	GGA	GGC	GTG	GTC	CAG			AGG		
Q	V	K	L	L	E	s	G	G	G	V	V	Q	P	G	R	S	L
AGA	CTC	63 TCC	TGT	ATA	72 GCG	TCT	GGA	81 TTC	ACC	CTC	90 AGG	AAT	TAT		ATG		108 TGG
		 S		 I	 A	 s	 G	 F	 T	 L	 R		 Y				
ĸ	ъ	ລ	C	1	Λ.	J	G	-	•		• • •					—→	
cm c	ccc	117	CCT	CCA	126	አለር	ccc	135	GAG		144 GTG			153			162 GAT
V	R	Q	Α	P	G	K	G	L	Ε	W	V	Α	G	I	W	F	D
															CDR2		
		171			180			189			198			207	3.00	maa.	216
GGA	AGT	AAC	AAA	AAC	TAT	GCA	GAC	TCC	GTG	AAG	GGC	CGA	TTC	ACC	ATC	TCC	AGA
<i>-</i>	s	N									G		F	T	I	S	R
					- CDF	₹2 —								0.61			270
		225			234	am.c	m 2 m	243	~~~	CTT C	252	א כ כ	CTC	261		GAG	
GAC	AAT	TCC	AAG	AAC	ACG	CTG	TAT	CTG	CAA		AAC						
D	N	s	К	N	T	L	Y	L	Q	L	N	s	L	R	D	E	D
		279			200			297			306			315			324
ACG	GCT	GTG			TGT	GCG	AGA	GAG	CGA	GCA	GCA	CGT	GGT	ATT			
 Т	 A	 V		 Y		 A	 R	 E	 R	 А	 A	 R	 G		 S	R	 F
												- CD	R3 —				
TAT	TAC	333 TAC	ATG	GAC	342 GTC	TGG	GGC	351 AAA	GGG	ACC	360 ACG	GTC			TCC	CCA	3'
Y	Y	Y	M	D	V	W	G	K	G	T	T	V	\mathbf{T}	V	S	P	
		(DR3			→											

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Fig. 1b

LD1-40-VL sequence

GT/G	ልሞር	9	CAG											45 GAC			
V	M	${f T}$	Q	S	P	S	S	L	S	Α	S	V	G	D	R	V	T
																	108
ATC	ACT	TGC	CGG	GCA	AGT	CAG	AGC	ATT	AGG	AGC	CAT	TTG	AAT	TGG	TAT	CAG	CAG
I	T	С	R			~						L		W	Y	Q	Q
			\leftarrow					CDR:	L —				>	1.50			1.60
מממ	CCA	117	AAA	GCC	126	AAC	ጥጥር	135 CTG	ΔΤΟ	тат	I44 GGT	GCG	TCC	153 ACT		CAA	162 AGT
K	P	G	K	Α	P	K	L	L	I	Y				Т			
														CDR2			
ccc	CTTC		TCA									GCA			АСТ		216 ACC
				AGG		AG1											
G	V	P	s	R	F	s	G	S	G	S	G	Α	V	F	Т	L	T
		225			234			243			252			261			270
ATC	GCC	AGT	CTA	CAA	CCT	GAA	GAT	TTT	GCA	ACT	TAC	TAC	TGT	CAA	GAG	AGT	TAC
	 A	 s			P	- Е	D	 F	 А	т	Y	Y	C	Q	E	s	Y
																	
		279			288	mmc	666	297	666	7.07	306	cmc	CAC	315	מממ	31	
AGT	AAT	CCT	CTA	ATC	ACC			CAA								J	
S	N	P	L	I	T	F	G	Q	G	T	R	L	E	T	K		
		DR3				•											

Fig. 2a

LD1-52-VH sequence

CAC	GTG.	9 444	ርጥር	CTC	18 GAG	тст	GGG	27 GGA	GGC	GTG	36 GTC	CAG		45 GGG	GGG	TCC	54 CTG
Q	V	K	L	L	E	S	G	G	G	V	V	Q	P	G	G	s	L
		63			72			81			90			99			108
AGA	CTC	TCC	TGT	GAA	GCG	TCT	GGA	TTC	GCC	CTC	AGA	AGT	TCT	GG C	ATG	CAC	TGG
 R		 S		 E	Α	s	- G	 F	- А	L	R	 S ←		G CDR1		 Н >	W
GTC	CGC	117 CAG	GCT	CCT	126 GGC	AAG	GGG	135 CTG	GAG	TGG	144 GTG			153		TTT	162 GAT
	 R	Q	 А	P	 G	к	 G	L L	E	w	v				W CDR2		D
GGA	AGT	171 ATC	AGA	TCG	180 TAT	GCA	GAA	189 TCC	GTG	AAG	198 GGC			207			216 AGA
 G	 S		 R	s	Y	- А	E	s	v	K	G	R	F	T	I	s	R
												•		261			270
GAC	ACT	225 TCC	AAG	AAC	234 ACC	CTA	TAT	243 CTC	CAA	ATG	252 CGC		CTG			GAC	
	 T	 S		 И	 Т	L	Υ	L	Q	- М	R	s	L	S	A	D	D
ACG	GCT	279 GTG	TAT	TAC	288 TGT	GCG	AGA	297 GAC	AAG	GCG	306 GTT	CGG	GGA	315 ATT		AGG	324 TAC
 T		v	Y	Y		Α	R	D	K	Α	v		G			R	Y
		333			342						360			369			-
AAC	TAT	TAC	ATG	GAC	GTC	TGG	GGC	AAA	GGG	ACC	ACG			GTC	TCC	TCA	3'
N	Y	Y CDR3		D	v	~~~ ₩	G	K	G	Т	Т	v	т	v	S	S	

Fig. 2b

LD1-52-VL sequence

		9			18			27									54
GTG	ATG	ACC	CAG	TCT	CCA	TCC	TCC	CTG	TCT	GCA	TCT	GTA	GGA	GAC	AGA	GTC	ACC
v	M	Т	Q	s	P	S	s	L	S	A	S	V	G	D	R	V	Т
ATC	ACT	63 TGC	CGG	GCA	72 AGT	CAG	AAC	81 ATT	ATC	CGC	90 TAT	TTA	AAT		TAT		108 CAG
	т	C	R												Y	Q	Q
AAG	CCA	117 GGG	AAA		126			135			144	GCG		153	TTG 	CAA	162 AG
K	P	G	K	Α	P	R	L	L	I	Y		Α		T			
GGG	GTC	171 CCA	TCA	AGG	180 TTC	AGT	GGC	189 AGT	GGA	TCT	198						21
G	v	P	s	R	F	S	G	s	G	s	G	T	D	F	Т	L	Т
ATC	AGT	225 AGT	CTG	CAA	234 CCT	GAA	GAT	243 TTT	GCA	ACT	252 TAC	TAC	TGT	261 CAA	CAG		27 TA
 I	 S	 S		Q	P	E	D	F	A	T	Y	Y	С	Q	Q	S	Y
CGT	ACC	279 CCT	CCA	TTC	288 ACT	TTC	GGC	297 CCT	GGG	ACC	306 AAA	GTG	GAG	315 ATC		. 3'	
 R	 T	P	P		 Т	F	G	P	- - -	T	ĸ	v	E	I	K		
		- CDF	२३ —			>											

Fig. 3a

LD1-84-VH sequence

CAG	GTG	9 AAA	CTG	CTC	18 GAG	TCT	GGG	27 GGA	GGC	GTG	36 GTC	CAG	CCG	45 GGG	GGG	TCC	54 CTG
		- - -			 E	 s	 G	 G	G	v	v	Q	P	G	G	s	L
AGA	CTC	63 TCC	TGT	GAA	72 GCG	TCT	GGA	81 TTC	ACC	CTC	90 AGA	AGT	TCT	99 GGC	ATG	CAC	108 TGG
 R	 L	 S		 Е	 А	s	G	F	T	L	R	S	S	G	М	Н	W
GTC	CGC	117 CAG	GCT	CCT	126 GGC	AAG	GGG	135 CTG	GAG	TGG	144 GTG			CDR1 153 ATA		TTT	162 GAT
v	 R	Q	 А	P	 G	K	G		E	W	V	Α	L	<u> </u>	CDB3	F	D
GGA	AGT	171 ATC	AGA	TCG	180 TAT	GCA	GAA	189 TCC	GTG	AAG	198 GGC			207 ACC			216
 G	 S		 R	s	Y	Α	E	S	V	K	G	R	F	Т	I	S	R
GAC	ACT	225 TCC		AAC	224			243 CTC	CAA	ATG	252 CGC	AGT	CTG	261 AGT		GAC	270 GA0
	 T	 S		 N	т	L	Y	L	Q	M	R	S	L	S	A	D	D
ACG	GCT	279 GTG	TAT	TAC	288 TGT	GCG	AGA	297 GAC	AAG	GCG	306 GTT	CGG	GGA	315 ATT		AGG	324 TAC
 T	 A		Y	Y	C	- - -	R	D	K		V			I		R	Y
AAC	TAT	333 TAC	ATG	GAC	342 GTC	TGG	GGC	351 AAA	GGG		360			369 GTC	1	TCF	3
N	Y		M R3 -	-		W →	G	K	G	Т	Т	V	Т	V	s	S	

Fig. 3b

LD1-84-VL sequence

		9			18			27			36			45			7.0
GTG	ATG	ACC	CAG	TCT	CCA	TCC	TCC	CTG	TCT	GCA	TCT	ATA	GGA	GAC	AGA		AC
v	<u>М</u>	т	Q	s	P	s	S	L	S	Α	S	I	G	D	R	V	Т
		63			72			81			90			99	m 2 m	CAC	10
ATC	ACC	TGC	CGG	GCA	AGT	CAG	AGT	ATC	ATC	AGG	TAT	TTG	AAT	TGG	TAT		
	 Т			A			s							W	Y	Q	
								— CI	R1 -		1 4 4		→	153			1
AAA	CCA	117 GGA	AAA	GCC	126 CCT	AAA	CTC	CTC	ATC	TTT	GCT	GCA	TCG	AAT	TTG		
 К	 P	 G		 A	 Р	к	L	L	I	F		A		N	L	Q	
														CDR2			2
GGG	GTC	171 CCA	TCC	AGG	180 TTC	AGT	GGC	189 AGT	GGA	TCT	GGG	ACA	GAT	TTC			_
 G		 P	 S	 R	 F	s	G	s	G	s	G	T	D	F	Т	L	
ATC	AGT	225 GAC	CTG	CAG	234 CCT	GAG	GAT	243 TTC	GCA	ACT	252 TAC	TAC	TGT		CAG		2 T
	 s	 D		 Q	P	 E	D	F	Α	Т	Y	Y	C	Q	Q	s	
AGT	AGG	279 CCG	TTC	ACT	288 TTT	GGC	: CGG	297 GGG	ACC	AGC	306	GAC	: ATC	315 AAA			
s	 R	P	F	т	F	G	R	G	Т	S	L	D	I	K			

Fig. 4a

LD1-110-VH sequence

		9			18			27			36			45			5 4
CAG	GTG	AAA	CTG	CTC	GAG	TCT	GGG	GGA	GGC	GTG	GTC	CAG	CCT	GGG	AGG	TCC	CTG
 Q	v	 К	 L	L	 E	s	- - -	G	G	V	v	Q	P	G	R	s	L
AGA	CTC	63 TCC	TGT	ATA	72 GCG	TCT	GGA	81 TTC	ACC	CTC	90 AGG	AAT	TAT	99 GCC	ATG	CAC	100 TG
 R		 s			A	s	G	F	т	L L	R		Y	A CDR1	M	H — →	W
GTC	CGC	117 CAG	GCT	CCA	126 GGC	AAG	GGG	135 CTG	GAG	TGG	144 GTG		GGT	153 ATA	TGG	TTT	16 GA
	 R	 Q	 А	P	G	ĸ	G	L	E	W	V	A	G			F R2 —	D
GGA	AGC	171 AAC	AAA	AAC	180 TAT	GCA	GAC	189 TCC	GTG	AAG	198 GGC			207		TCC	
G	s	N	к	N	-	Α	D	S	V	K	G	R	F	Т	I	S	F
GAC	AAC	225 TCC	AAG		224	R2 — CTG		243 CTG	CAC	ATG	252 AAC	AGC	CTG	261 AGA		GAG	27 GA
	 N	 S		N	т		F	L	Н	M	N	S	L	R	Α	Ε	I
ACG	GCT	279 ACA	TAT	TAC	288 TGT	GCG	AGA	297 GAG	AGG	GCG	306 ATT	CGG	GGA	315 ATC		'AGA	32 TA
 T	Α	т	Y	Y	C	A	R	E	R	Α	I	R	G	I	s	R	
AAT	TAC	333 TAC	ATG	GAC	342 GTC	: TGG	GGC	351 AAG						369)	TCA	. :
N	Y	Y CDR3	м з —	D	V	 ₩	G	K	G	т	Т	V	T	V	S	S	

Fig. 4b

LD1-110-VL sequence

		9			18			27									34
GTG	ATG	ACC	CAG	TCT	CCA	TCC	TCC	CTG	TCT	GCA	TCT	GTA	GGA	GAC	AGA		ACC
v	 М	т	Q	s	P	S	s	L	s	Α	s	v	G	D	R	V	Т
ATC	ACT	63 TGC	CGG	GCA	72 AGT	CAG	AGC	81 ATT	CGA	AGC	90 TCT	тта	AAT	99 TGG	TAT	CAG	10 CA
 I	 T		 R	Α	s							L			Y	Q	,
AAA	CCA	117 GGG	←— AAA		126			135			144	GCA		153	TTG	CAA	16 AG
к	P		K	Α	P	K	v	L	I	Y	A	A	S			Q	
GGG	GTC	171 CCA	TCC	AGG	180 TTC	AGT	GGC	189 AGA	GGA	TCT	198	ACA		207			21
G	v	P	s	R	F	s	G	R	G	s	G	Т	D	F	T	L	Т
ATC	AGC	225 AGT	CTG	CAG	234 CCT	GAA	GAT	243 TTT	GCG	ACT	252 TAT	TAT	TGT		CAG		27 TC
	 S	 s		Q	P	E	D	F	A	T	Y	Y	С	Q	Q	S	5
AGT	TCC	279 TCG	TGG	ACG	288 TTC	GGC	CAA	297 GGG	ACC	AAG	306 GTG	GAA	ATC	315 AAA			
s 	_	 S DR3 -	W		 F	G	Q	G	T	K	V	E	I	K			

3 '

LD1-117-VH sequence

' CA	.G	GTG	9 AAA	CTG	CTC	18 GAG	TCA	GGA	27 GGA	GGC	GTG	36 GTC		CCT	45 GGG	AAG	TCC	54 CTG
 Q	-	v	 К			 Е	 S	- G		 G	v	v	Q	P	G	K	s	L
AG	A	СТТ	63 TCC	TGT	GCA	72 GCG	TCT	GGA	81 TTC	AGT	TTC	90 AAT		CAT	99 GG C			108 TGG
 R	-	 L	 S	- 	 А	 A	 S	 G	 F	s	F	N	 S ←	Н	G CDR1	М	H —→	W
GT	'C	CGC	117 CAG	GCT	CCA	126 GGC	AAG	GGG	135 CTG	GAG	TGG	144 GTG	,		153 ATA		TTT 	162 GAT
 V	- 7	 R	Q	A	P	G		- - -	L	E	W	v	A	F	I	W CDR2	F	D
GG	GC.	AGT	171 AAT	AAA	TAC	180 TAT	GCA	GAC	189 TCC	GTG	AAG	198 GGC						216 AGA
	- -	 s		К	Y				s	v	K	G	R	F	Т	I	Т	R
G.P	\C	AAC	225 TCC	AAG	AAC	234		TAT	243	CAA	ATG	252 AAC	AGC	CTG	261 AGA		GAG	270 GAC
 I)		 S	- <u>-</u> -	N	 T	L	Y	L	Q	M	N	S	L	R	A	E	D
AC	CG	GCT	279 GTC	TAT	TAC	288 TGT	GCG	AGA	297 GAG	ACC	TCA	306 GTA	AGG	CTA	315 . GGG		AGC	324 CGC
	 r	 А		Y	Y	c	Α	R	E	Т		V				Y	S	R
T <i>l</i>	AC.	AAT	333 TAC	TAC	ATG	342 GAC	GTC	TGG	351 GGC			360 ACC			369		TCG	378 TCA
	 Y	N	Y	Y	 M	D	v	w	G	K	 G	T	т	V	Т	I	S	S

Fig. 5b

LD1-117-VL sequence

		9															
GTG	ATG	ACC	CAG	TCT	CCA	TCC	TCC	CTG	TCT	GCA	TCT	GTA	GGA	GAC	AGA	GTC	ACC
v	M	T	Q	s	P	S	s	L	S	Α	S	V	G	D	R	V	T
		63			72			81			90			99			10
ATC	ACT	TGC	CGG	GCA	AGT	CAG	AGC	ATT	AGG	AGC	CAT	TTG	AAT	TGG	TAT	CAG	CA
I	 Т	C	R	Α	S	Q	s						N		Y	Q	Q
		117			126			135			144			153			16
AAA	CCA	GGG	AAA	GCC	CCT	AAG	CTC	CTG	ATC	TAT	GCT	GCA	TCC	AGT	TTG	CAA	GG'
 К	P	 G	к	A	P		L	L	I	Y	A	A	S	S	L	Q	G
		171			100			180			198			CDR2			21
GGG	GTC	171 CCA	TCA	AGG	TTC	AGT	GGC	AGT	GGA	TCT						CTC	
 G		P	 S	 R	 F	s	- G	-	 G	 s	G	т	D	F	T	L	T
		225			234			243			252			261			27
ATC	AGC	AGT	CTG	CAA	CCT	GAA	GAT	TTT	GCA	ACT	TAT	TAC	TGT	CAA	CAG	AGT	TA
	s	- s	L L	Q	P	 E	D	F	Α	T	Y	Y	C	Q	Q	s	
		279			288			297			306			315			
AGG	GCC	CCT	CAG	TGG	ACG	TTC	GGC	CAA	GGG	ACC	AAG	GTG	GAA	ATC	AAA	3'	
 R	 А	P	Q	W	 T	F	G	Q	G	T	к	v	E	I	K		
		- CDP	кз —			•											

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Fig. 6a

LD2-1-VH sequence

		9			18						36			45			
CAG	GTG	AAA	CTG	CTC	GAG	TCT	GGG 	GGA	GGC	GTG	GTC	CAG	CCG	GGG	GGG	TCC	
Q	V	K	L	L	E	S	G	G	G	V	V	Q	P	G	G	S	
		63			72			81			90			99			
AGA	CTC		TGT	GTA	GCG	TCT	GGA	TTC	ACC	CTC	AGG	AGT	TAT	GGC	ATG	CAC	
R	L	s	C	v	A	s	G	F	Т	L	R	s	Y	G	М	H	
												•		CDR1			_
		117		~~~	126			135	C N C	mcc	144	CCT			TGG		
GTC	CGC	CAG	GCT	CCA		AAG		CTG	GAG	166				ATA			
V	R	Q	Α	P	G	K	G	L	E	W	V		F		W	F	
														 1	CDR2		_
		171							am a					207	አሞሮ	mcc	
GGA	AGT	AAT	AAA	GGA	TAT	GTA	GAC	TCC	GTG	AAG		CGA		ACC			
G	s	N											F	T	I	s	
		005						242			252	•		261			
GAC	AAT		AAG		234 ATG									AGA	GCC	GAT	
D	N	S	K	N	М	v	Y	L	Q	М	N	S	L	R	A	D	
		279			288			297			306			315			
ACG	GCT				TGT	GCG	AGA	GAG	AAG	GCG				ATC	AGC	AGA	
 T	 A		Y	Y		- А			ĸ					I		R	
																	-
		333		a. a			666		666			cmc			TH.C.C.	ጥሮል	
AAC	TAT	TAC	CTG	GAC	GTC	TGG		AAG		ACC	ACG			GTC			
N	Y	Y	L	D	V	W	G	K	G	т	Т	V	T	V	s	s	
		CDR3															

Fig. 6b

LD2-1-VL sequence

		9			18									45			54
GTG	GTG	ACT	CAG	CCA	CCC	TCA	GCG	TCT	GGG	ACC	CCC	GGA	CAG	AGG	GTC	ACC	ATC
v	v	T	Q	P	P	s	A	S	G	T	P	G	Q	R	V	T	I
TCT	TGT	63 TCT	GGA	AGC	72 AAC	TCC	ATC	81 CTT	GGA	AGT	90 AAG	TAT	GTA	99 TAC	TGG	TAC	108 CAG
s		S	G	s	N		I — C				K	Y	V	Y →	W	Y	Q
AAA	CTC	117 CCA	GGA	ACG	126			135			144	AAG	AAT	153 GAT	CAG	CGG	162 CCC
 К		 P	- G	 Т	A	P	K	L L	L	I	Y	K	N	D	Q		P
TCA	GGG	171 GTC	TCT	GAC	180 CGA	TTC	TCT	189 GGC	TCC	AAG				207 TCG			210 CT0
 S	 G		 s	D	R	F	s	G	S	K	s	G	Т	S	Α	S	L
→ GCC	ATC	225 AGT	GGG	CTC	234 CGG	TCC	GAG	243 GAT	GAG	GCT	252 GAC	TAT	TAC	TGT	GCA	CCA	27 TG
 А		 S	 G		R	s	- - -	D	E	A	D	Y			Α	P	W
GAT	GCC	279 AAC	CTG	GGT	288 GGC	CCG	GTG	297 TTC	GGC	GGA		ACC		315 CTG		GTC	32 CT
D	Α	N	 L CI		G				G	G	G	T	К	L	T	V	L
AGT		333 CCC	3').NJ -													
		 P															

Fig. 7a

LD2-4-VH sequence

		9			18			27			36	G 3 G	ccc	45	ccc	ሞርር	54 CTC
CAG	GTG	AAA	CTG	CTC	GAG	TCG	GGG 	GGA	GGC	GTG	GTC	CAG					
Q	v	K	L	L	E	s	G	G	G	V	V	Q	P	G	G	S	L
AGA	CTC	63 TCC	TGT	GAA	72 GCG	TCT	GGA	81 TTC	ACC	CTC	90 AGA	AGT	TCT	99 GGC 	ATG	CAC	108 TG
- R	 T.	 S		 Е	A	s	- - -	 F	Т	L	R	s	s	G	M	Н	W
		117 CAG	GCT	CCT	126 GGC	AAG	GGG	135 CTG	GAG	TGG	144 GTG					TTT	16: GA'
v	 R	 Q		 Р	G	K	G	L	E	W			L		W	F	D
GGA	AGT	171 ATC	AGA	TCG	TAT	GCA		TCC	GTG	AAG	GGC	CGA	TTC		ATC	TCC	
G	s	I	R	s	Y	Α	E	S	V	K	G	R	F	Т	I	S	R
GAC	ACT	225 TCC	AAG		- CDF 234 ACC			243 CTC	CAA	ATG	252 CGC		CTG	261 AGT	GCC	GAC	27 GA
	 T	s		N .	т	L	·Y	L	Q	M	R	s	L	s	Α	D	D
ACG	GCT	279 GTG	TAT	TAC	288 TGT	GCG	AGA	297 GAC	AAG	GCG	306 GTT	CGG	GGA	315 ATT		AGG	32 TA
 T	 A	 V	 Y	Y	_ _ _	 A	R	D		A	V				S	R	Y
AAC	TAT	333 TAC	ATG	GAC	342 GTC	TGG	GGC	351 AAA			360 ACG			369		TCA	. 3
N	Y	Y CD	M R3 -	D	V	₩	G	K	G	T	T	V	Т	V	S	S	

Fig. 7b

LD2-4-VL sequence

		9			18			27			36			45			54
GTG	ATG	ACC	CAG	TCT	CCA	TCC	TCC	CTG	TCT	GCA	TCT	GTA	GGA	GAC	AGA	GTC	ACC
 V	 M	 T	Q	 S	P	s	s	L	s	A	s	V	G	D	R	V	T
ATC	ACT	63 TGC	CGG	ACA	72 AGT	CAG	ACC	81 ATT	AGC	AGA	90 AAT	TTA			TAT		108 CAG
 I	 T		 R	T			T							W	Y	Q	Q
AAA	CCA	117 GGG			126		CTC	135			144			153	TTG	CAA	16 AG
ĸ	- - -	G	K	Α	P	K	L	L	I	Y	A			S CDR2	L	Q	S
GGG	GTC	171 CCA	TCA	AGG	180 TTC	AGT	GGC	189 AGT	GGA	TCT	198			207 TTC	ACT	CTC	
G	V	P	S	R	F	S	G	S	G	S	G	Т	D	F	Т	L	Ί
ATC	AAT	225 AGT	СТА	CAA	234 CCT	GAA	GAT	243 TTT	GCA	ACT	252 TAC	TAC	TGT	261 CAA		AGT	27 TA
- - -	N	 s	L	Q	P	E	D	F	Α	T	Y	Y	С	Q	Q	S	7
ACT	' ACC	279 CCT	тсс	TTC	288 GGC	CAA	GGG	297 ACC	AAG	GTG	306 GAA	ATC		315 315			
T	Т — CD	P R3 —		 F	G	Q	G	т	К	V	E	I	K				

Fig. 8a

LD2-5-VH sequence

CAG	GTG	9 AAA	CTG	CTC	18 GAG	TCT	GGG	27 GGA	GGC	TTG	36 GTC	CAG	CCG	45 GGG	GGG	TCC	C'
 Q	v	- - -			E	s	G G	G	G	L	v	Q	P	G	G	s	
AGA	CTC	63 TCC	TGT	GTA	72 GCG	TCT	GGA	81 TTC	ACC	TTC	90 AGG	AGT	TAT	99 GGC	ATG	CAC	1 T
 R	 L	 S		v 	 А	s	G	 F	T	F	R		Y		M	Н	
GTC	CGC	117 CAG	GCT	CCA	126 GGC	AAG	GGC	135 CTG	GAG	TGG	144 GTG		ттт	CDR1 153 ATA			1
v	R	Q	Α	P	G	K	G	L	E	W	V	Α	F		W CDR2	F	
GGA	AGT	171 AAT	AAA	GGA	180 TAT	GTA	GAC	189 TCC	GTG	AAG	198 GGC			207 ACC			2
 G	 s		К								G	R	F	Т	I	S	
GAC	AAT	225	AAG		231			243			252 AAT	AGC	CTG	261 AGA	GCC	GAG	
	 N	- 		N	M	L	Y	L	Q	М	N	S	L	R	Α	E	
ACG	GCT	279 GTA	TAT	TAT	288 TGT	GCG	AGA	297 GAG	AAG	GCG	306 CTT	CGG	GGA	315 ATC	AGT	AGA	
T	-	v	Y	Y	С	A	R	E		Α			G	_	S	R	
AAC	TAT	333 TAC	CTG	GAC	342 GTC	TGG	GGC	351			360			369 GTC		TCA	.
N	Y	Y	L)R3 -	_		₩ →	G	K	G	Α	Т	V	Т	V	S	S	

Fig. 8b

LD2-5-VL sequence

GTG	ATG	9 ACC	CAG	TCT	18 CCA	TCC	TCC	27 CTG	TCT	GCA	36 TCT	ATA	GGC	45 GAC		GTC	
				 s	P					A	s		G		R		T
ATC	ACT	63 TGC	CGG	GCA	AGT	CAG	AGC	GTT	ACC	AGG	101	TTA			TAT	CAG	108 CAG
	 T		 R	 А	s	Q	s	v	Т	R	S	L	N	W	Y	Q	Q
							CTC	CDR 135 CTA	ATC	ттт	144 GCT	GCG		153			162
											Α	Α	S	T	L	Q	S
			TСА	AGG	180 TTC	AGT	GGC	189 AGT	GGA	TCT	198 GGG	ACA	GAT	207 TTC	ACC	CTC	216
G	V	P	S	R	F	s	G	S	G	S	G	T	D	F.	Т	L	_
ATC	AGC	225 AGT	CTG	; CAA	234 . CCT	GAG	GAT	243 TTT	GGA	ACT	252 TAC	TAC	TGT			AAT	
	 S											Y				N	
AGG	ACC	279 CCT	CAG	G TGG	288 ACC	TTC	: GGC	297 C CAP	, A GGG	ACC	306 AA	5 5 GT <i>A</i>	GAA	315 A ATC		a 3	•
 R	 T	 Р	Q		т	F						v					

Fig. 9a

LD2-10-VH sequence

		9			18			27			36	G 2 G	ccc	45	ccc	ጥርር	54 CTG
CAG	GTG	AAA	CTG	CTC	GAG	TCT	GGG	GGA	GGC	GTG 	GTC	CAG					
 Q	v		L L	L	E	s	G	G	G	V	V	Q	P	G	G	S	L
	CTC	63 TCC	TGT	GTA	72 GCG	TCT	GGA	81 TTC	ACC	CTC	90 AGG	AGT	TAT	99 GGC	ATG		108 TGG
 R	 L	 S			 A	s	-	F	Т	L	R	s	Y	G GDD1	M	••	M
GTC	CGC	117 CAG	GCT	CCA	126 GGC	AAG	GGC	135 CTG	GAG	TGG	144 GTG	GCT		153	TGG		162
	 R			 P		 К				M	v	Α	F	I	W	F	D
GGA	AGT	171 AAT	AAA	GGA	180 TAT	GTA	GAC	189 TCC	GTG	AAG	GGC	CGA	TTC	207 ACC			216
 G	 S	 N	 K									 R		Т	I	S	R
			AAG		234 ATG	GTC	TAT	243 CTG	CAA	ATG	252 AAC	AGC	CTG	261 AGA	GCC	GAT	270 GAC
	 N		 K						Q		N		L	R	Α	D	D
-		279 GTA	TAT	TAT	TAT	TGT	GCG	297 G AGA	GAG	AAG	306 GCG	5 CTT	CGG	315 GGA	, ATC	; AGC	324 : AGA
 T	 A	v				C			E	к	Α	L	R	G	I	S	R
TAC	: AAC	333 TAT	B T TAC	CTC	342 G GAG	2 C GTC	TG0	351 G GGC			360	D ACG		369 ACC	9 C GT(TCA
								G			Т	Т	V	Т	V	S	S

Fig. 9b

LD2-10-VL sequence

, •	GTG	GTG	9 ACT	CAG	GAG	18 CCC	TCA	CTG	27 ACT	GTG	TCC	36 CCA	GGA	GGG	45 ACA	GTC	ACT	CTC
		 V	 T	 Q	 E	 P	 S	L	T	v	s	P	G	G	T	V	T	L
	ACC	TGT	63 GCT	TCC	AGC	72 ACT	GGG	GCA	81 GTC	ACC	AGG	90 GGT	TAC	TAT	99 CCA	AAC	TGG	108 TTC
	 T	 C		 s			 G	Α	v	T	R	G		Y	P	N —→	W	F
	CAG	CAG	← 117 AAG	CCT	GGA		GCA		125			144 ATT	TAT	AGT	153 ACA	AAC	AAA 	162 AAA
	 Q	 Q	 К	 P	 G	Q						I		S	Т	N	K	K
	CAC	TCC	171 TGG	ACC	CCT	180 GCC	CGG	TTC	189 TCA	GGC	TCC	198 CTC	CTT		207			216
	 H	 S		 T	 Р		R	 F	s			L		G	G	K		Α
		→ ACA	225 CTG	TCA	GGT	234 GTG	CAG	CCT	243 GAA	GAC	GAG	252 GCT	GAA	TAT	261 TAC	TGC	CTG	270 CTC
	 L	т	 L	s	 G		Q				Ε	Α		Y	Y	С	L ←	L
	TAC	TAT	279 GGT	e GGT	GCT	288 CA#	CTC	GT <i>F</i>	297 A TTC	GGC	C GG	306 A GG0	ACC	AA C	315 G CTC	5 ACC	GTC	324 CTA
		Y	 G	 G CD		Q	L	v	F	 G	G	G	Т	K	L	Т	V	L
	CG.	r ca	333	3 C 3														
	R	Q																

Fig. 10a

LD2-11-VH sequence

			9			18			27				~~ ~	995	45	ccc	mcc.	5 ~~
C	AG	GTG	AAA	CTG	CTC	GAG	TCG	GGG 	GGA	GGC	GTG	GTC	CAG					
_	Q	v	K	L	L	E	s	G	G	G	V	V	Q	P	G	G	S]
			63			72			81			90			99			1
P	AGA	CTC	TCC	TGT	GAA	GCG	TCT	GGA	TTC	ACC	CTC	AGA	AGT	TCT	GGC	ATG	CAC	T
-	R	L	 S		 Е	A	s	G	F	T	L	R		s	G	M	Н	
						100			125			144						1
G	STC	CGC	117 CAG	GCT	CCT	GGC	AAG	GGG	CTG	GAG	TGG	GTG	GCA	CTT				
-	v	 R		 А	 P	 G	ĸ	G	L	E	W	v	A	L	I		F	
									100			108			207			2
C	GGA	AGT	171 ATC	AGA	TCG	TAT	GCA	GAA	TCC	GTG	AAG	GGC	CGA	TTC	ACC	ATC	TCC	P
-			 T	 R								 G						_
	G	S 					R2 —						•					_
			225			234			243			252		ama		ccc		2
(GAC	ACT	TCC	AAG	AAC	ACC	CTA	TAT	CTC	CAA	ATG	CGC	AGT	CTG	AGT			-
-	D	 Т	s	к	N	- - -	L	Y	L	Q	М	R	S	L	s	Α	D	
			279			288			297			306			315			:
i	ACG	GCT	GTG	TAT	TAC	TGT	GCG	AGA	GAC	AAG	GCG	GTT	CGG	GGA	ATT	AGC	AGG	
•	 Т			Y	Y	C	 А	R	D			V			_	S	R	
			333			3/12			351			360			369			
	AAC	TAT	TAC	ATG	GAC	GTC	TGG	GGC	AAA	GGG	ACC	ACG	GTC	ACC	GTC	TCC	TCA	-
		 Y	Y	 M	D	v	W	G	K	 G	T	T	v	Т	V	s	s	
_			— CD	R3 -														

Fig. 10b

LD2-11-VL sequence

		9			18			27			36			45			54
GTG	TTG	ACC	CAG	TCT	CCA	TCC	TCC	CTG	TCT	GCA	TCT	ATA	CGA	GAC	AGA	GTC	ACC
v			Q	s	P	s	s	L	S	Α	s	I	R	D	R	V	Т
ATC	ACT	63 TGC	CGG	GCA	72 AGT	CAG	AAC	81 ATT	GGC	AGT	90 TAT	TTA	AAT	99 TGG	TAT	CAG	10 CA
 I	 Т		 R				N						N	W	Y	Q	Н
AAA	CCA	117 GGG	← ACA	GCC	126		CTC	135			144		TCC	153 GCT	ТТG 	CAA	16 AG
	 P	G	T	A	P	K	L	L	I	Y	Α	V	S		L R2 —	Q	S
GGG	GTC	171 CCA	TCG	AGG	180 TTC	AGT	GGC	189 AGT	AGA	TCT	198 GGG		GAT	207			21 AC
 G	v	P	S	R	F	s	G	S	R	S	G	T	D	F	Т	L	7
ATC	AGC	225 AGT	CTG	CAA	234 CCT	GAA	GAT	243 TTT	GCA	ACT	252 TAC		TGT	261 CAA		AGT	27 TA
 I	 S	 S	 L	Q	P	E	D	F	Α	Т	Y	Y	С	Q	Q	S	3
		279			288	_		297			306			315		1	
AGT	CCC	CCG	TAC	ACT	TTC	GG C	CAG	GGG	ACC		CTG			. AAA			
s	P	P	Y	Т	F	G	Q	G	T	N	L	Q	I	K			
	- CD	R3 -		>													

Fig. 11a

LD2-14-VH sequence

G 1 C	CMC.	9	CTG	ርሞር	18 GAG	тст	GGG	27 GGA	GGC	GTG	36 GTC	CAG	CCG	45 GGG	GGG	TCC	5 CT
	 V		 L	 L	 E	 S	 G			 V	v	 Q	 Р		- - -	s	
			TGT		7.0		GGA	81 TTC	ACC	TTC	90 AGG	AAT	TTT		ATG		10 TO
 R	v				Α	s	G	F	Т	F	R			G CDR1	M	H	
GTC	CGC	117 CAG	GCT	CCA	126 GGC	AAG	GGG	135 CTG	GAG	TGG	144 GTG			153			16
	 R	 Q	 А	P	 G	K	G	L	E	W			F		W CDR2	F	I
GCA	AGT	171 AAT	AAA	GGA	180 TAT	GGA	GAC	TCC	GTT	AAG	198	CGA	TTC	207	GTC		2
 A				 G	 Y	G	D	S	v		G				V	S	
GAC	AAT	225 TCC	AAG	AAC	004			213		ATG	252 AAC	GGC	CTG	261 AGA	. GCC	GAA	2 . G.
 D	 N	 S		N	- - -	L	Y	L	Q	М	N	G	L	R	A	E	
ACG	GCT	279 GTA	TAT	TAT	288 TGT	GCG	AGA	297 . GAG	AAG	GCG	306 GTT		GGA	315 ATT	AGT	AGA	3 T
 T	 A		Y	Y	C	Α	R	E	K	A		R	G 193 -	I	S	R	
AAC	TAC	333 TAC	B C ATG	GAC	342 : GTC	: TGG	GGC	251			360	1		369)	TCA	A 3
N	Y	Y		D		W		K			Т						

Fig. 11b

LD2-14-VL sequence

		9			18			27			36	 .	GG7	45	א כ א	ርሞር	54 ACC
GTG	ATG	ACC	CAG	TCT	CCA	TCC	TCC	CTG	TCT	GCA	TCT	GTG	GGA.				
	 М	т	Q	S	P	s	s	L	s	A	S	V	G	D	R	V	Т
ATC	ACT	63 TGC	CGG	GCA	72 AGT	CAG	AGC	81 ATT	ATC	AAC	90 AAT	TTA	AAT	99 TGG 	TAT	CAG	108 CAG
			 R	 A	- - -	Q	s		I	N	N	L		W	Y		Q
				GCC	106			CDR 135 CTG	ATC		144 GCT			153 AGT	TTG	CAA	162 AGT
 K	 P	 G	- К	 A	P	E	L				Α	Α	S	s — CD	L	Q	S
GGG	GTC	171 CCT	TCA	AGG	TTC	CGT	GGC	AGT	GGA	TCT	198 GGG	AGA	GAT	207 TTC	ACT	CTC	216
G	V	P	S	R	F	R	G	S	G	S	G	R	D	F	Т	L	1
GTC	ACC	225 AGT	CTG	CAA	234 CCT	GA.A	GAT	243 TTT	GCA	ACT	252 TAC	TAC	TGT	261 CAA	CAG	AGT	270 TAC
	 T	 S		Q	P	E	D	F	A	Т	Y	Y	С	Q ←		S	Y
AGT	ACC	279	TGG	; ACG	288 TTC	GGC	CAF	297 A GGG	ACC	AAG	306 GTG	5 G GAA	ATC	315	ò		
s 	Т	L — CD		т		 G	Q	G	т	K	V	E	I	K			

Fig. 12a

LD2-17-VH sequence

	Y		L				G	K	G	Т	Т	٧	Т	V	S	S	
AAC	TAT	333	CTG	GAC	342 GTC		GGC	351 AAG	G GGG	ACC	360 ACG	GTC	ACC	369 GTC) TCC		A -
т	A		Y	Y	С	A	R	E	К	A	L	R CDR3	G 3 —	I	S		
			TAT		TGT		AGA	GAG	AAG		CTT		GGA	ATC	AGT		
D	N	s	K	N	T	L	Y	L	Q	М	K	S	L				
GAC	AAT	225 TCC	AAG	AAC	234 ACG	CTC	TAT	243 CTG	CAA	ATG	252 AAG			AGA	GCC		-
 G	 s	 N				v R2		S	V	K	G	R	F	T	I	S	-
GGA	AGT	171 AAT	AAA	GGA	180 TAT	GTA	GAC	TCC	GTG	AAG	198 GGC	CGA	TTC	207 ACC	ATC	TCC	2 C
	 R	 Q									V	Α	F		W	F	
GTC	CGC	117 CAG	GCT	CCA	126 GGC	AAG	GGC	CTG	GAG	TGG 		GCT	ттт	153	TGG		1
 R		 S				 S	G	F	T	F	R			G CDR1	M	H >	
AGA	CTC	63 TCC	TGT	GTA	GCG	TCT	GGA	TTC	ACC	TTC	90 AGG	AGT	TAT	99 GGC	ATG	CAC	10 T0
 Q		 К			E	s	G	G	G	v	V	Q	P	G	G	S	3
CAG	GTG	9 AAA	CTG	CTC	GAG	TCT	GGG	27 GGA	GGC	GTG	36 GTC	CAG	CCG	45 GGG	GGG	TCC	CT

Fig. 12b

LD2-17-VL sequence

		9			18			27			36			45			54
GTG	ATG	ACC	CAG	TCT	CCA	TTC	TCC	CTG	TCT	GCA	TCT	GTA	GGA	GAC	AGA	GTC	
 V	 M	т	Q	s	P	F	s	L	S	Α	S	V	G	D	R	V	Т
ATC	ACT	63 TGC	CGG	GCA	72 AGT	CAG	AAC	81 ATT	AGG	AGT	90 TTT	TTA	AGT		TAT		10 CA
 I	 T		 R		 S	 Q	N		R	S	F	L	s	W		Q	_
AAA	CCA	117 GGG	← ACA	GCC	126		CTC	135 CTG	ATC	TAT	144 GCT			153	TTG	CAA	16 AG
 K			 T	 A	P				I	Y	A		s	R	L	Q	S
GGG	GTC	171 CCA	TCA	AGG	180 TTC	AGT	GGC	189 AGT	GGG		198			207			21
 G		 Р	s	R	F	s	G	S	G	S	G	T	D	F	Т	L	7
ATC	AGC	225 ACT	CTG	CAA	234 CCT	GAA	GAT	243 TTT	GCG	ACT	252 TAC		TGT			G AGT	27 T2
	 S	 T		Q	P	 Е	D	F	A	T	Y	Y	С	Q	Q	s 	•
AGT	GCC	279 CCT	TGG	ACG	288 TTC	GGC	: CAA	297 . GGG	ACC	AAG	306 CTG	GAA	ATC	315 AAA		1	
s —		P CDR3	W	т ——	 F	G	Q	G	Т	K	L	E	I	K			

Fig. 13a

LD2-20-VH sequence

CAG	GTG	9 AAA	CTG	CTC	18 GAG	TCT	GGG	27 GGA	GGC	GTG	36 GTC	CAG	CCG	45 GGG	GGG	TCC	5 CT
 0	 V	 K	 L		 Е	s	 G			V	V	Q	P	G	G	S	1
AGA	CTC	63 TCC	TGT	GTA	72 GCG	TCT	GGA	81 TTC	ACC	TCC	90 AGG	AGT	TAT	99 GGC 	ATG	CAC	10 T0
 R		 S		v			G	F	T		R	s	Y	G	M	H →	W
GTC	CGC	117 CAG	GCT	CCA	126 GGC	AAG	GGC	135 CTG	GAG	TGG				153		TTT	1 G -
	 R	Q		P	G	K				W	V		F		W CDR2	F	
GGA	AGT	171 AAT	AAA	GGA	180 TAT	GTA	GAC	TCC	GTG	AAG	198 GGC			207			2
 G		 N		 G	 Y	v	D	S	V		G					S	
GAC	TAA	225	AAG			R2 —		040		ATG	252 AAG	AGC	CTG	261 AGA	GCC	GAG	; (
 D	N	 S		N	T	L	Y	L	Q	M	K	S	L	R	Α	E	
ACG	GC7	279 r GT <i>P</i>) A TAI	TAT	288 TGT	GCG	AGA	297 GAG	AAC	GCC	306 CTT	CGG	GGA	315 ATC	AGT	AGA	\ \ \- '
 T			Y	Y	C	A	R	E	K	Α	L	R	G CDR3	I 	S	R	
AAC	TA:	333 TAC	3 C CTC	G GAG	342 C GT	2 C TGG	GGC	251			360 C ACC)		369	•		A. -
	 Y	 Y	 L DR3 -	D	v						Т			V		S	

Fig. 13b

LD2-20-VL sequence

GTG	ልጥር	9 ACC	CAG	тст	18 CCA	TCC	TCC	27 CTG	TCT	GCA	36 TCT	GTA	GGA	45 GAC	AGA	GTC	ACC
 V		 Т	 Q	 S							s	v	G	D	R	V	Т
,		63 TGC	CGG	GCA	72 AGT	CAG	AGC	81 ATT	AGC	AGC	90 TAT	TTA	AAT		TAT		108 CAG
	 T		 R	 A		Q	s	I	s	s	Y	L	N			Q	
AAA	CCA	117 GGG	←— AAA					— СЕ 135 СТG	ATC	TAT	GCT			153 AGT	TTG	CAA	162 AGT
	 P										Α	Α	s	S	L	Q	S
			TCA	AGG	180 TTC	AGT	GGC	189 AGT	GGA	TCT	198	ACA		207		CTC	210 AC0
 G		 P	s	 R	F	S	G	s	G	S	G	T	D	F	Т	L	Т
ATC	AGC	225 AGT	CTG	CAA	234 CCT	GAA	GAT	243 TTT	GCA	ACT	252 TAC	TAC	TGT	261 CAA		AGT	27 TA
	 S			 Q		 E		F						Q	_	S	Y
_				: ACT	288 TTC	GGC	c cci	297 GGG	ACC	: AAA	306 \ GTC	G GAT	ATC	315 AA		,	
	 Т	 R	F	Т	F												

Fig. 14a

LD1-6-17-VH sequence

CAG	GTG.	9 AAA	CTG	CTC	18 GAG	TCT	GGG	27 GGA	GGC	GTG	36 GTC	CAG	CCT	45 GGG	AGG	TCC	54 CTG
 Q	 V	 K		 L	 E	 s	 G		 G		v		P	G	R	S	L
-	CTT	63 TCC	TGT	GCA	72 GCG	TCT	GGA	81 TTT	ACC	TTC	90 AGT	AGC	TAT	99 GGC	ATG		108 TGG
 R	 L	 S	 C	 А	 A			 F			s	S	Y	G	М	Н	W
			GCT	CCA	126 GGC	AAG	GGG	135 CTG	GAG	TGG	144 GTG	GCA	GAT	153		——→ TTT 	162 GAT
 V	 R	 Q	 A	 P	 G	 K					V	Α	D	I	W	F	D
·		_	AAA	CAT	180 TAT	GCA	GAC	TTC	GTG	AAG	GGC	CGA	TTC	207 ACC	ATC		216 AGA
 G		 N	_	- - -		 A	D	F	V	K	G				I	S	R
GAC	AAT	225 TCC	AAG	AAC	234 ACG	GTG	TAT	243 CTA	CAA	ATG	252 AAC	AGC		AGA	GTC	GAG E	270 GA0
D	N	S	K	N	Т	V	Y	L	Q	М	N		L				_
ACG	GCT	279 'GTG	TAT	TAC	288 TGT	GCG	AGG	297 GAT	' TAC	TAT	AGC	GTT	ACT	315 AAC	6 AAA 	CTC	32 AG:
		v					R	D D	Y	Y	S	V	T	K		L 	
CTC	CAC	333 TAC	TAC	C TAC	TAC	ATO	GAC	351 GTC	TGG		360 AAA			369	9 G GT(C ACC	37 GT
 L	 Н		Y		Y		D	v	W		K						

s

Fig. 14b

LD1-6-17-VL sequence

. •	GTG	ATG	9 ACC	CAG	TCT	18 CCA	TCC	TCC	27 CTG	тст	GCA	36 TCT	GTA	GGA	45 GAC	AGA	GTC	54 ACC
,		 M			 S								v	G		R		T
	•		_	_	GCA	72 AGT	CAG	GGC	81 ATT	AGA	AAT	90 GAT	TTA	ACC	99 TGG	TAT	CAG	108 CAA
		 T		R	Α	 S	Q	G	I	R	N	D	L	T	W	Y	Q	Q
	AAA	CCA	117 GGG	←— AAA	GCC	126 CCT			CDR1 135 CTG			7 4 4		TCC	153	TTA	CAA	162 AGT
		 P		 K								Α		s	N CDR2	L	Q	S
	GGG	GTC	171 CCA	TCA	AGG	180 TTC	AGC	GGC	189 AGT	GGA	TCT	108			207			216
			 P		 R									D	F	Т	L	T
	ATC	: AGC	225 : AGC	: сте	; CAG	234 CCT	GAA	GAT	243 TTT	GCA	ACT	252 TAT	TAC	TGT		CAA		270 AAC
		 S		 L											L		D	N
	_	_) 5 TAC	C ACT	200	,		297	,		306	5		315	 5		
	 N	 F	 P	Y	T →	F			 G		_							

Fig. 15a

LD1/2-6-3-VH sequence

5 '	CAG	GTG	9 AAA	CTG	CTC	18 GAG	TCT	GGG	27 GGA	GGC	GTG	36 GTC	CAG	CCG	45 GGG	GGG	TCC	54 CTG
	 Q	v	- - -			 Е	S	G	G		V	٧	Q	P	G	G	S	L
	AGA	GTC	63 GCC	TGT	GTA	72 GCG	TCT	GGA	81 TTC	ACC	TTC	90 AGG	AAT	TTT	99 GGC	ATG	CAC	108 TGG
	 R	v	 A	 С	v	 A		 G	F		F	R	N	F	G CDR1	М	Н	W
	GTC	CGC	117 CAG	GCT	CCA	126 GGC	AAG	GGG	135 CTG	GAG	TGG	144 GTG			153			162 GAT
	 V	 R	 Q	 А	 P	 G	K	G	L	E	W	V	A	F		W CDP2	F	D
	GCA	AGT	171 AAT	AAA	GGA	180 TAT	GGA	GAC	189 TCC	GTT	AAG	198 GGC			207			216
	 A	 S		 К	G						K	G	R	F	Т	V	S	R
	GAC	AAT	225 TCC		AAC	004			213		ATG	252 AAC	GGC	CTG	261 AGA	GCC	GAA	270 GAC
		 N	 S	 K	 N	т		Y	L	Q	М	N		L	R	Α	E	D
	ACG	GCT	279 GTA	TAT	TAT	288 TGT	GCG	AGA	297 . GAG	, AAG	GCG	306 GTT	CGG	GGA	315 ATT		AGA	324 TAC
	- - -	 A		Y	Y		Α	R	E							s	R	Y
	AAC	TAC	333 TAC	B ATG	G GAC	342 GTC	TGG	GGC	351 AAC			360 ACG	1		369		C TC#	3'
	N	 Y		м М		∨ 		G	К		Т	Т			V		s	

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Fig. 15b

LD1/2-6-3-VL sequence

		_			1 0			27			36	C.T. 3		45			54
GTG 2	ATG	9 ACC	CAG	TCT	CCA	TCC	TCC	CTG	TCT	GCA	TCT	GTA	GGA	GAC	AGA	GTC	ACC
	- - - М	 T		 S	 Р			L				V	G	D	R	V	T
ATC .	ACT	63 TGC	CGG	GCA	72 AGT	CAG	AGC	81 ATT	ATC	AGA	90 TAT	TTA	AAT	99 TGG	TAT	CAG	108 CAC
- - -	 T		 R		s	Q	s	I	I	R	Y	L	N	W	Y	Q	Н
AAA	CCA	117 GGG		GCC	100			135			144 ACT	GCA	TCC	153 AGT		CAA	AGT
 К	 P	G	K	A	P	K	L	L	I	Н	T	A	S	S	L D2	Q	S →
GGG	GTC	CCG		AGG	TTC	AGT	GGC	AGT	GTA	TCT	198 GGG	ACA	GAT	207 TTC	ACT	CTC	216 ACC
 G	v	P	S	R	F	s	G	S	V	S	G	Т	D	F	Т	L	Т
ATC	AGC	225 AGT	CTG	CAA	234 CCT	GAA	GAT	243 TTT	GCA	ACT	252 TAC	TAC	TGT	261 CAA	CAG	AGT	270 TAC
	 S	 S	 L	Q	P	E	D	F	A	Т	Y	Y	С			S	Y
ACT	ACC	279 CCG	TAC	: ACT	288 TTT	GGC	CAG	297 G GGG	, ACC	: AAG	306	CAG	ATC	315 AAA	•	1	
 T	 Т	 P		Т	F							Q					

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Fig. 16a

LD1/2-6-33-VH sequence

CAG	GTG	9 AAA	CTG	CTC	18 GAG	TCT	GGG	27 GGA	GGC	GTG	36 GTC	CAG			GGG	TCC	54 CTC
 Q	v	 К		 L	 Е	s	G	G	G	v	V	Q	P	G	G	S	L
AGA	GTC	63 GCC	TGT	GTA	72 GCG	TCT	GGA	81 TTC	ACC	TTC	90 AGG	AAT	TTT	99 GGC	ATG	CAC	10 TG
					 A		G	F	т	F	R	N	F	G	M	H	W
GTC	CGC	117 CAG	GCT	CCA	126 GGC	AAG	GGG	135 CTG	GAG	TGG	144 GTG			153		——→ TTT 	16 GA
 V	 R	 Q	 A	P	G	K			E	W			F	I	W W	F	D
GCA	AGT	171 AAT	AAA	GGA	180 TAT	GGA	GAC	189 TCC	GTT	AAG	198 GGC			207		TCC	21
 A	 S	- - -		 G	Y	G	D	S	v	K		R			V	S	F
GAC	AAT	225 TCC	AAG			R2 — CTC		242			—→ 252 AAC	GGC	CTG	261 AGA	GCC	GAA	2' . G2
	 N		K	 N	T	L	Y	L	Q	М	N	G	L	R	Α	Ε]
ACG	GCT	279 GTA	TAT	TAT	288 TGT	GCG	AGA	297 GAG	, AAG	GCG	306	CGG	GGA	315 ATT		AGA	3: T.
 T		v	Y	Y	C	A	R				V		G		S	R	
AAC	TAC	333 TAC	ATC	GAC	342 GTC	e TGG	GGC	251			360	CI G GTC		369	TCC		3
N	Y	Y	м з —	D					G			V		V			

5

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Fig. 16b

LD1/2-6-33-VL sequence

		9			18			27						45	n	CMC.	54
GTG	ATG	ACC	CAG	TCT	CCA	TCC	TTC	CTG	TCT	GCA	TCT	GTA	GGA	GAC	AGA		
v	- - -	т	Q	s	P	S	F	L	S	Α	s	V	G	D	R	V	Т
ATC	ACT	63 TGC	CGG	GCA	72 AGT	CAG	AGC	81 ATT	ATC	AGA	90 TAT	TTA	AAT	99 TGG	TAT		108 CAC
	 T		 R			Q							N	W	Y	Q	Н
AAA	CCA	117 GGG	← AAA		126	AAG		135			144	GCA	TCC	153 AGT	TTG	CAA	162 AGT
 К	 P	 G	 К	 А	P	к			I	н	Α	Α	s	S	L D2 _	Q	s
GGG	GTC	171 ccg	TCA	AGG	180 TTC	AGT	GGC	189 AGT	GTA	TCT	198	ACA		207			216
 G	v	P	s	R	F	s	G	S	V	s	G	T	D	F	T	L	T
ATC	AGC	225 AGT	CTG	CAA	234 CCT	GAA	GAT	243 TTT	GCA	ACT	252 TAC	TAC	TGT		CAG		270 TAC
	s	 S	 L	Q	P	- <u>-</u> -	D	F	 A	T	Y	Y	С	Q	Q	S	Y
ACT	ACC	279 CCG	TAC	ACT	288 TTT	GGC	CAG	297 GGG	ACC	AAG	306 CTG	CAG		315 AAA			
T	т (P CDR3	Y	 	 F	- G	Q	G	T	K	L	Q	I	K			

Fig. 17

The pComb3 Expression System



